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OM protein - protein search, using sw model

Run on: June 23, 2003, 15:15:57 ; Search time 48 Seconds
(without alignments)
414.793 Million cell updates/sec

Title: AAK91826

Perfect score: 965

Sequence: 1 MRGRSLRGDAPAPPCV.....ATELSTELVTTKTAGEPQQ 184

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 417779 seqs, 108206813 residues

Number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	965	100.0	184	US-10-008-063-2	Sequence 2, Appli
2	965	100.0	184	US-10-152-363A-60	Sequence 60, Appli
3	815	84.5	185	US-10-251-947-2	Sequence 2, Appli
4	755.5	78.3	170	US-10-251-947-6	Sequence 6, Appli
5	745	77.2	171	US-10-251-947-4	Sequence 7, Appli
6	745	77.2	171	US-10-251-947-7	Sequence 14, Appli
7	736.5	76.3	186	US-10-251-947-14	Sequence 14, Appli
8	410.5	42.5	175	US-10-008-063-13	Sequence 12, Appli
9	384	39.8	128	US-10-008-063-42	Sequence 43, Appli
10	120.5	12.5	1023	US-09-893-519A-14	Sequence 14, Appli
11	117	12.1	635	US-09-738-626-6614	Sequence 6614, Ap
12	114.5	11.9	418	US-09-946-807-3	Sequence 3, Appli
13	114.5	11.9	418	US-09-795-668-3	Sequence 3, Appli
14	114.5	11.9	418	US-09-795-668-3	Sequence 3, Appli
15	105.5	10.9	550	US-09-976-740-47	Sequence 47, Appli
16	105.5	10.9	550	US-10-023-529-47	Sequence 47, Appli
17	105.5	10.9	550	US-10-023-523-47	Sequence 47, Appli
18	104	10.8	250	US-10-218-654-31	Sequence 31, Appli
19	104	10.8	268	US-10-218-654-23	Sequence 23, Appli

20	104	10.8	276	9	US-10-218-654-26	Sequence 26, Appli
21	104	10.8	294	9	US-10-218-654-7	Sequence 7, Appli
22	101	10.5	375	10	US-09-764-664-886	Sequence 886, App
23	100.5	10.4	538	9	US-09-976-740-43	Sequence 43, Appli
24	100.5	10.4	538	12	US-10-023-529-43	Sequence 43, Appli
25	100.5	10.4	538	12	US-10-023-523-43	Sequence 62, Appli
26	100	10.4	684	9	US-10-157-031-62	Sequence 62, Appli
27	98.5	10.2	839	9	US-10-245-103-54	Sequence 54, Appli
28	98.5	10.2	839	9	US-10-245-107-54	Sequence 54, Appli
29	98.5	10.2	839	9	US-10-245-143-54	Sequence 54, Appli
30	98.5	10.2	839	9	US-10-245-771-54	Sequence 54, Appli
31	98.5	10.2	839	9	US-10-245-851-54	Sequence 54, Appli
32	98.5	10.2	839	9	US-10-245-883-54	Sequence 54, Appli
33	98.5	10.2	839	9	US-10-237-535-54	Sequence 54, Appli
34	98.5	10.2	839	9	US-10-238-183-54	Sequence 54, Appli
35	98.5	10.2	839	9	US-10-238-283-54	Sequence 54, Appli
36	98.5	10.2	839	9	US-10-238-370-54	Sequence 54, Appli
37	98.5	10.2	839	9	US-10-245-055-54	Sequence 54, Appli
38	98.5	10.2	839	9	US-10-245-147-54	Sequence 54, Appli
39	98.5	10.2	839	9	US-10-245-730-54	Sequence 54, Appli
40	98.5	10.2	839	9	US-10-245-739-54	Sequence 54, Appli
41	98.5	10.2	839	9	US-10-246-210-54	Sequence 54, Appli
42	98.5	10.2	839	9	US-10-239-136-54	Sequence 54, Appli
43	98.5	10.2	839	9	US-10-243-024-54	Sequence 54, Appli
44	98.5	10.2	839	9	US-10-243-409-54	Sequence 54, Appli
45	98.5	10.2	839	9	US-10-245-033-54	Sequence 54, Appli

ALIGNMENTS

RESULT 1

US-10-008-063-2

Sequence 2, Application US/10008063

Publication No. US20030092164A1

GENERAL INFORMATION:

APPLICANT: Gross, Jane A.

APPLICANT: Xu, Wenfeng

APPLICANT: Henne, Randal M.

APPLICANT: Grant, Francis, J.

TITLE OF INVENTION: Human Tumor Necrosis Factor Receptor

FILE REFERENCE: 00-103

CURRENT APPLICATION NUMBER: US/10/008,063

CURRENT FILING DATE: 2001-11-05

NUMBER OF SEQ ID NOS: 46

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 2

LENGTH: 184

TYPE: PRT

ORGANISM: Homo sapiens

US-10-008-063-2

Query Match 100.0%; Score 965; DB 9; Length 184;

Best Local Similarity 100.0%; Pred. No. 1.1e-67;

Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MRGRSLRGDAPAPPCVPAECEDLVRCVACGLRTPRPKAGSSAPAPRALPO	60
DB	1	MRGRSLRGDAPAPPCVPAECEDLVRCVACGLRTPRPKAGSSAPAPRALPOQ	60
QY	61	ESVGAGAEALPLPGLLFGAPALLGLALVLAIVLGVSMRRORRRKAGSSAAPDGD	120
DB	61	ESVGAGAEALPLPGLLFGAPALLGLALVLAIVLGVSMRRORRRKAGSSAAPDGD	120
QY	121	KDAPPLDKVILISGIDATAPAMPPEGDEGTTTTPGSHSVVPATELGSTELVTTKAG	180
DB	121	KDAPPLDKVILISGIDATAPAMPPEGDEGTTTTPGSHSVVPATELGSTELVTTKAG	180
QY	181	PEQQ 184	
DB	181	PEQQ 184	

RESULT 2
US-10-152-363A-60
; Sequence 60, Application US/10152363A
; Publication No. US20030103986A1
; GENERAL INFORMATION:
; APPLICANT: Rixon, Mark W.
; APPLICANT: Gross, Jane A.
; TITLE OF INVENTION: TACI-Immunoglobulin Fusion Proteins
; FILE REFERENCE: 01-20
; CURRENT APPLICATION NUMBER: US/10/152,363A
; CURRENT FILING DATE: 2002-05-20
; PRIOR APPLICATION NUMBER: 60/293,343
; PRIOR FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 70
; SOFTWARE: PseSeq for Windows Version 3.0
; SEQ ID NO 60
; LENGTH: 184
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-152-363A-60

Query Match 100.0%; Score 965; DB 9; Length 184;
Best Local Similarity 100.0%; Pred. No. 1.1e-67;
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVAAGLLRTPRPKAGASSPAPRTALOPQ 60
DB 1 MRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVAAGLLRTPRPKAGASSPAPRTALOPQ 60
QY 61 ESIVGAGAGAAALPLPGLLFGAPALLGLALVTLVGLVSWRRRORRLRGASAAEAPDGD 120
DB 61 ESIVGAGAGAAALPLPGLLFGAPALLGLALVTLVGLVSWRRRORRLRGASAAEAPDGD 120
QY 121 KDAPEPLDKVITLSPGISDATAPAMPPEGDEGTPPGHSHVVPATELGSITELVTTKTAG 180
DB 121 KDAPEPLDKVITLSPGISDATAPAMPPEGDEGTPPGHSHVVPATELGSITELVTTKTAG 180
QY 181 PEOQ 184
DB 181 PEOQ 184

RESULT 3
US-10-251-947-2
; Sequence 2, Application US/10251947
; Publication No. US2003009990A1
; GENERAL INFORMATION:
; APPLICANT: Heu, Hailing
; TITLE OF INVENTION: TALL-1 Receptor Molecules and Uses Thereof
; FILE REFERENCE: 01-1160-A
; CURRENT APPLICATION NUMBER: US/10/251,947
; CURRENT FILING DATE: 2002-09-20
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 185
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-251-947-2

Query Match 84.5%; Score 815; DB 9; Length 185;
Best Local Similarity 85.9%; Pred. No. 4.7e-56;
Matches 159; Conservative 7; Mismatches 17; Indels 2; Gaps 2;

QY 1 MRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVAAGLLRTPRPK-PAGASSPAPRTALOP 59
DB 1 MRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVAAGLLRTPRPK-PAGASSPAPRTALOP 60
QY 60 QESVAGAGAAALPLPGLLFGAPALLGLALVTLVGLVSWRRRORRLRGASAAEAPDGD 119
DB 61 QESVAGAGAAALPLPGLLFGAPALLGLALVTLVGLVSWRRRORRLRGASAAEAPDGD 120
QY 120 DK-DAPEPLDKVITLSPGISDATAPAMPPEGDEGTPPGHSHVVPATELGSITELVTTKT 178

DB 121 DKAAPEPLDKVITLSPGISDATAPAMPPEGDEGTPPGHSHVVPATELGSITELVTTKT 180
QY 179 AGEPO 183
DB 181 AGEPO 185

RESULT 4
US-10-251-947-6
; Sequence 6, Application US/10251947
; Publication No. US2003009990A1
; GENERAL INFORMATION:
; APPLICANT: Heu, Hailing
; TITLE OF INVENTION: TALL-1 Receptor Molecules and Uses Thereof
; FILE REFERENCE: 01-1160-A
; CURRENT APPLICATION NUMBER: US/10/251,947
; CURRENT FILING DATE: 2002-09-20
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-251-947-6

Query Match 78.3%; Score 755.5; DB 9; Length 170;
Best Local Similarity 79.8%; Pred. No. 1.8e-51;
Matches 146; Conservative 7; Mismatches 17; Indels 13; Gaps 1;

QY 1 MRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVAAGLLRTPRPKAGASSPAPRTALOPQ 60
DB 1 MRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVAAGLLRTPRPKAGASSPAPRTALOPQ 60
QY 61 ESIVGAGAGAAALPLPGLLFGAPALLGLALVTLVGLVSWRRRORRLRGASAAEAPDGD 120
DB 61 ESIVGAGAGAAALPLPGLLFGAPALLGLALVTLVGLVSWRRRORRLRGASAAEAPDGD 120
QY 121 KDAPEPLDKVITLSPGISDATAPAMPPEGDEGTPPGHSHVVPATELGSITELVTTKTAG 180
DB 121 K-----AGTTDATAPAMPPEGDEGTPPGHSHVVPATELGSITELVTTKTAG 167
QY 181 PEO 183
DB 168 PEO 170

RESULT 5
US-10-251-947-4
; Sequence 4, Application US/10251947
; Publication No. US2003009990A1
; GENERAL INFORMATION:
; APPLICANT: Heu, Hailing
; TITLE OF INVENTION: TALL-1 Receptor Molecules and Uses Thereof
; FILE REFERENCE: 01-1160-A
; CURRENT APPLICATION NUMBER: US/10/251,947
; CURRENT FILING DATE: 2002-09-20
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-251-947-4

Query Match 77.2%; Score 745; DB 9; Length 171;
Best Local Similarity 79.3%; Pred. No. 1.1e-50;
Matches 146; Conservative 7; Mismatches 17; Indels 14; Gaps 2;

QY 1 MRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVAAGLLRTPRPK-PAGASSPAPRTALOP 59
DB 1 MRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVAAGLLRTPRPK-PAGASSPAPRTALOP 60


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; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (138)
; OTHER INFORMATION: "Xaa" can be any naturally occurring amino acid.
; OTHER INFORMATION: or is absent.
US-10-251-947-14
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```
Query Match          76.3%; Score 736.5; DB 9; Length 186;
Best Local Similarity 78.5%; Pred. No. 5.8e-50;
Matches 146; Conservative 7; Mismatches 30; Indels 3; Gaps 2;
```

```
QY 1 MRGPRSLRGDAPAPTPCVPACFDLVRHCVACGLRTPRPKP-AGASSPAPRTALOP 59
DB 1 MRGPRSLRGDAPAPTPCVPTECYDLVRKCVDCRLRKSPPKTXAGASSPAPRTALOP 60
QY 60 QESVAGAGEALPLGGLFGAPALGLVLTALVTVGLVSWRRQRRLRGASSAPADPG 119
DB 61 QESVGTGSEVSLPLPGLFGAPALGLVLTALVTVGLVSWRRQRRLRGASSAPADPG 120
QY 120 DK--DAPEPLDKYIILSPGISDATAPAMPPEGSDPGTTPPGHSPVPATELSGTELVTTK 177
DB 121 DKAXXXXXXXXXXXXXXXXXGTTDATAPAMPPEGSDGTTTPPGHSIPVPATELSGTELVTTK 180
QY 178 TAGPEQ 183
DB 181 TAGPEQ 186
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RESULT 8
US-10-008-063-13
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; Sequence 13, Application US/10008063
; Publication No. US20030092164A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Gross, Jane A.
; APPLICANT: Xu, Wenfeng
; APPLICANT: Henne, Randal M.
; APPLICANT: Grant, Francis, J.
; TITLE OF INVENTION: Human Tumor Necrosis Factor Receptor
; FILE REFERENCE: 00-103
; CURRENT APPLICATION NUMBER: US/10/008,063
; CURRENT FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Mouse
US-10-008-063-13
```

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Query Match          42.5%; Score 410.5; DB 9; Length 175;
Best Local Similarity 56.1%; Pred. No. 9.7e-25;
Matches 101; Conservative 9; Mismatches 55; Indels 15; Gaps 6;
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```
QY 6 RSLRGDAPAPTPCVPACFDLVRHCVACGLRTPRPKPAGASSPAPRTALOPQESVGA 65
DB 9 RSCRSRSDSSVPTQCNQTECFDPLVRKCVSCLEPHT--PDGHTSSLEPGTALQPOE---- 62
QY 66 GAGEALPLPLGLFGAPALGLVLTALVTVGLVSWRRQRRLRGASSAPADPGKDA- 123
DB 63 --GSARPDVALVGAAPALGLLTALVTVGLVSWRRQRRLRGASSAPADPGKDA- 115
QY 124 PEPLDKYIILSPGISDATAPAMPPEGSDPGTTPPGHSPVPATELSGTELVTTKTAGPEQ 183
DB 116 QESLEVPVPSSTPHASATWPELKEADSDALPRISVVPAPATELSGTELVTTKTAGPEQ 175
```

```
RESULT 9
US-10-008-063-42
; Sequence 42, Application US/10008063
; Publication No. US20030092164A1
; GENERAL INFORMATION:
; APPLICANT: Gross, Jane A.
; APPLICANT: Xu, Wenfeng
```

```
; APPLICANT: Henne, Randal M.
; APPLICANT: Grant, Francis, J.
; TITLE OF INVENTION: Human Tumor Necrosis Factor Receptor
; FILE REFERENCE: 00-103
; CURRENT APPLICATION NUMBER: US/10/008,063
; CURRENT FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 328
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Znftr12-fcs-Fc5.
US-10-008-063-42
```

```
Query Match          39.8%; Score 384; DB 9; Length 328;
Best Local Similarity 100.0%; Pred. No. 2.2e-22;
Matches 72; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 MRGPRSLRGDAPAPTPCVPACFDLVRHCVACGLRTPRPKPAGASSPAPRTALOP 60
DB 20 MRGPRSLRGDAPAPTPCVPACFDLVRHCVACGLRTPRPKPAGASSPAPRTALOP 79
QY 61 ESVGAGEAL 72
DB 80 ESVGAGEAL 91
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RESULT 10
US-09-893-519A-14
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; Sequence 14, Application US/09893519A
; Publication No. US2003002743A1
; GENERAL INFORMATION:
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; APPLICANT: ANADYS PHARMACEUTICALS, INC.
; APPLICANT: THOMPSON, Craig
; APPLICANT: MOORE, Jeffrey
; APPLICANT: BURMAN, Ed T.
; APPLICANT: BRADLEY, John
; APPLICANT: DESTIVA, Thamara
; APPLICANT: HARRIS, Sandra
; APPLICANT: KOMARITSKY, Svetlana
; APPLICANT: MENDILLO, Marc
; APPLICANT: MOORE, Daniel
; APPLICANT: MCCOY, Melissa
; APPLICANT: SANDERSON, Karen
; APPLICANT: HAO, Tariq
; APPLICANT: ZHU, Shuhao
; APPLICANT: LONG, Fan
; APPLICANT: DAVIDOV, Eugene
; TITLE OF INVENTION: ANTIFUNGAL COMPOUNDS AND METHODS OF USE
; FILE REFERENCE: 0342/1G548-US2
; CURRENT APPLICATION NUMBER: US/09/893,519A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/215,164
; PRIOR FILING DATE: 2000-06-29
; PRIOR APPLICATION NUMBER: US 60/224,457
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: PatentIn version 3.1.
; SEQ ID NO 14
; LENGTH: 1023
; TYPE: PRT
; ORGANISM: Homo sapiens
```

```
; NAME/KEY: misc_feature
; OTHER INFORMATION: Corresponds to SEQ ID NO: 87
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: Human Genbank/CAAT2189
; DATABASE ENTRY DATE: 1997-06-25
; RELEVANT RESIDUES: (1)..(1023)
US-09-893-519A-14
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QY 58 QPOESVAGAGGALPLPGLLFGAPALLG---LATLVLTVLVGLVSWRRROR----RLR 109
Db 39 LGTAAPGAAGNEAP-AGASVCSPPSVGVQELAQAAAVVIGKVHPQRQGGALDRKA 97
QY 110 GASSAEP--DGDKAPEPLDKVIIISPGISDATAP-AMPPGEGD-----GTPPGHSV 161
Db 98 AAAAGGAGAGWGDRREP-----AAGPRALGPAAEEPLAANGTVPSWPTA 142

QY 162 PVPA 165
Db 143 PVPS 146

RESULT 14

US-09-795-686-3
; Sequence 3, Application US/09795686
; Patent No. US2002094954A1
; GENERAL INFORMATION:
; APPLICANT: Stefansson, Hrelnn
; APPLICANT: Steinhorsdottir, Valgerdur
; APPLICANT: Gulcher, Jeffrey R.
; TITLE OF INVENTION: HUMAN SCHIZOPHRENIA GENE
; FILE REFERENCE: 2345,2005-001
; CURRENT APPLICATION NUMBER: US/09/795,686
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: US 09/515,715
; PRIOR FILING DATE: 2000-02-28
; NUMBER OF SEQ ID NOS: 1531
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 418
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-795-686-3

Query Match 11.9%; Score 114.5; DB 10; Length 418;
Best Local Similarity 29.3%; Pred. No. 0.22;
Matches 54; Conservative 14; Mismatches 55; Indels 61; Gaps 10;

QY 2 RRGPRSLRGDAPPTPCVPAECFDLVRHCVACGLLRTPRPKAGASSP----APRTAL 57
Db 4 RRAPRR-SGRPG-----RAQPGSAARSSPPLPLPLLL 38
QY 58 QPOESVAGAGGALPLPGLLFGAPALLG---LATLVLTVLVGLVSWRRROR----RLR 109
Db 39 LGTAAPGAAGNEAP-AGASVCSPPSVGVQELAQAAAVVIGKVHPQRQGGALDRKA 97
QY 110 GASSAEP--DGDKAPEPLDKVIIISPGISDATAP-AMPPGEGD-----GTPPGHSV 161
Db 98 AAAAGGAGAGWGDRREP-----AAGPRALGPAAEEPLAANGTVPSWPTA 142

QY 162 PVPA 165
Db 143 PVPS 146

RESULT 15

US-09-976-740-47
; Sequence 47, Application US/09976740
; Publication No. US20020194633A1
; GENERAL INFORMATION:
; APPLICANT: Lees, Ann M.
; APPLICANT: Lees, Robert S.
; APPLICANT: Law, Simon W.
; APPLICANT: Arjona, Anibal A.
; TITLE OF INVENTION: NOVEL LOW DENSITY LIPOPROTEIN BINDING
; TITLE OF INVENTION: PROTEINS AND THEIR USE IN DIAGNOSING AND TREATING
; FILE REFERENCE: 10797-004001
; CURRENT APPLICATION NUMBER: US/09/976,740
; PRIOR FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 09/616,289
; PRIOR FILING DATE: 2000-07-14

; PRIOR APPLICATION NUMBER: US 08/979,608
; PRIOR FILING DATE: 1997-11-26
; PRIOR APPLICATION NUMBER: US 60/031,930
; PRIOR FILING DATE: 1996-11-27
; PRIOR APPLICATION NUMBER: US 60/048,547
; PRIOR FILING DATE: 1997-06-03
; NUMBER OF SEQ ID NOS: 53
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 550
; TYPE: PRT
; ORGANISM: Oryctolagus cuniculus
US-09-976-740-47

Query Match 10.9%; Score 105.5; DB 9; Length 550;
Best Local Similarity 26.7%; Pred. No. 1.5;
Matches 54; Conservative 10; Mismatches 65; Indels 73; Gaps 10;

QY 2 RRG-----PRSLRG-----RDAPPTPCVPAECFDLVRHCVACGLLRTPRPKP-AGASS 50
Db 104 RRGATPPAPPPAPRGSPAAAAPPTPAP-----PPAPVAAAAA 144
QY 51 P-APRTALQPOESVAGAGGALPLPGLLFGAPALLGLALVLVLVGLVSWRRRORRL 108
Db 145 PARAPRA-----AAAAAATAPSPG-----PAQPG-----PRAQRAA 177
QY 109 RGAS-----SAAPPDGDKAPEPLDKVIIISPGISDATAPAMPPGEGDGTTPPGH 159
Db 178 PLAAAPPAPAPPAAPPAAGPRAPPPAAVAARESPLEPPPPQAPAPQOQOQPPPPPP 237
QY 160 SVPVATELGSTELVTTKTAGP 181
Db 238 QQPQPEEGCA-----ARAGCP 254

Search completed: June 23, 2003, 15:25:22
Job time : 50 secs

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TOPOLOGY: 1linear
US-08-249-322A-170

Query Match 11.8%; Score 113.5; DB 1; Length 422;
Best Local Similarity 28.3%; Pred. No. 0.012;
Matches 54; Conservative 15; Mismatches 51; Indels 71; Gaps 11;

QY 2 RRGPRSLRGDAPAPPTCPACFCFDLLVRHCVAAGLRTPRPKPAGASSP-----GT 51
DB 4 RRAPRR-SGRPGP-----RAQRPASAASSPPLPLPLLL 38
QY 52 APRTALQPOESVAGAGGALPL-PGLLFGAPALG-----LALVLAIVLVGLVSMRRQR 106
DB 39 LGTALAP-----GAAAGNEAAPAGASVCSSPPSVGSVQELAQRAAVIEGKVHPQRQQ 94
QY 107 ----RLGASAEAP--DGDKDAPEPLDKVILSPGISDATAP-AMPPGEDP-----GT 154
DB 95 GALDRKAAAGAGAGAGAGGDRREP-----AAGRALGPPAEPLLAANGT 139
155 TRPGHSVPVPA 165
140 VPSMPTAPVPS 150

RESULT 15
US-08-428-927-3

Sequence 3, Application US/08428927
Patent No. 5756456

GENERAL INFORMATION:

APPLICANT: HO, Wei-Hsien

APPLICANT: Osheroft, Phyllis L.

TITLE OF INVENTION: SENSORY AND MOTOR NEURON DERIVED FACTOR (SMDF)

NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Genentech, Inc.

STREET: 460 Point San Bruno Blvd

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: pacin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/428,927

FILING DATE: 25-APR-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/339517

FILING DATE: 14-NOV-1994

ATTORNEY/AGENT INFORMATION:

NAME: Lee, Wendy M.

REGISTRATION NUMBER: 00,000

REFERENCE/DOCKET NUMBER: 853D3

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415/225-1994

TELEFAX: 415/952-9881

TELEX: 910/371-7168

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 422 amino acids

TYPE: amino acid

TOPOLOGY: 1linear

US-08-428-927-3

Query Match 11.8%; Score 113.5; DB 1; Length 422;
Best Local Similarity 28.3%; Pred. No. 0.012;
Matches 54; Conservative 15; Mismatches 51; Indels 71; Gaps 11;

2 RRGPRSLRGDAPAPPTCPACFCFDLLVRHCVAAGLRTPRPKPAGASSP-----GT 51
11.8%; Score 113.5; DB 1; Length 422;
Best Local Similarity 28.3%; Pred. No. 0.012;
Matches 54; Conservative 15; Mismatches 51; Indels 71; Gaps 11;

DB 4 RRAPRR-SGRPGP-----RAQRPASAASSPPLPLPLLL 38
QY 52 APRTALQPOESVAGAGGALPL-PGLLFGAPALG-----LALVLAIVLVGLVSMRRQR 106
DB 39 LGTALAP-----GAAAGNEAAPAGASVCSSPPSVGSVQELAQRAAVIEGKVHPQRQQ 94
QY 107 ----RLGASAEAP--DGDKDAPEPLDKVILSPGISDATAP-AMPPGEDP-----GT 154
DB 95 GALDRKAAAGAGAGAGAGGDRREP-----AAGRALGPPAEPLLAANGT 139
155 TRPGHSVPVPA 165
140 VPSMPTAPVPS 150

Search completed: June 23, 2003, 15:17.14
Job time : 33 secs

STRANDEDNESS: .
TOPOLOGY: linear
US-08-469-569-170

Query Match
Best Local Similarity 11.8%; Score 113.5; DB 1; Length 422;
Matches 54; Conservative 15; Mismatches 51; Indels 71; Gaps 11;

QY 2 RRGPRRLRGDADAPPCVPAECFDLLVHHCVACGLLRTPRPKPAGASSP-----51
DB 4 RRAPRR-SGRPGP-----RAQRGSAARSSPPLPLPLLL 38

QY 52 APRTALQPOESVAGAGGAPLPL-PGLLFGAPALLG-----LALVIALVIVGLVSMRROR 106
DB 39 LGTAALAP-----GAAGNEAPAGASVCYSSPPSVGSVOELQRAAVVIEGKVHPQRQO 94

QY 107 ----RLRGASSAEP--DGDKAPEPLDKVITLSPGISDAPAP-AMPPGEDP-----GT 154
DB 95 GALDRKAAAGAGAGAGWGSDREPP-----AAGPRALGPPEEPLLAANGT 139

DB 155 TPGHSPVPA 165
140 VPSWPTAPVPS 150

RESULT 13
US-08-428-926-3
Sequence 3, Application US/08428926
Patent No. 5667780
GENERAL INFORMATION:
APPLICANT: Ho, Wei-Heien
APPLICANT: Osherooff, Phyllis L.
TITLE OF INVENTION: SENSORY AND MOTOR NEURON DERIVED FACTOR (SMDF)
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/428,926
FILING DATE: 25-APR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/339517
FILING DATE: 14-NOV-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lee, Wendy M.
REGISTRATION NUMBER: 00,000
REFERENCE/DOCKET NUMBER: 85314
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1994
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 422 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-428-926-3

Query Match
Best Local Similarity 11.8%; Score 113.5; DB 1; Length 422;
Matches 54; Conservative 15; Mismatches 51; Indels 71; Gaps 11;

QY 2 RRGPRSLRGDADAPPCVPAECFDLLVHHCVACGLLRTPRPKPAGASSP-----51

DB 4 RRAPRR-SGRPGP-----RAQRGSAARSSPPLPLPLLL 38

QY 52 APRTALQPOESVAGAGGAPLPL-PGLLFGAPALLG-----LALVIALVIVGLVSMRROR 106
DB 39 LGTAALAP-----GAAGNEAPAGASVCYSSPPSVGSVOELQRAAVVIEGKVHPQRQO 94

QY 107 ----RLRGASSAEP--DGDKAPEPLDKVITLSPGISDAPAP-AMPPGEDP-----GT 154
DB 95 GALDRKAAAGAGAGAGWGSDREPP-----AAGPRALGPPEEPLLAANGT 139

QY 155 TPGHSPVPA 165
140 VPSWPTAPVPS 150

RESULT 14
US-08-249-322A-170
Sequence 170, Application US/08249322A
Patent No. 5716930
GENERAL INFORMATION:
APPLICANT: Goodheart, Andrew; Stroobant, Paul;
APPLICANT: Mungueti, Luisa; Waterfield, Michael; Marchioni, Mark;
APPLICANT: Chen, Mao Su; Hiles, Ian
TITLE OF INVENTION: Glial Mitogenic Factors, Their
NUMBER OF SEQUENCES: 184
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Felte & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/249,322A
FILING DATE: 26-MAY-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/036,555
FILING DATE: 24-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/965,173
FILING DATE: 23-OCT-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/940,389
FILING DATE: 03-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/907,138
FILING DATE: 30-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/863,703
FILING DATE: 03-APRIL-1992
ATTORNEY/AGENT INFORMATION:
NAME: Tsai, Christine H.
REGISTRATION NUMBER: 34,266
REFERENCE/DOCKET NUMBER: LUD 250.4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 688-9200
TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 170:
SEQUENCE CHARACTERISTICS:
LENGTH: 422
TYPE: amino acid
STRANDEDNESS:

QY 52 APTTALQPOESVGAAGEAALPL-PGLLFGAPALLG---LALVALVLVGLVSWRROR 106
DB 39 LGTALAP-----GAAAGNEAAPAGASVCSSPPSVSVQELAORAAVIEGKVHPORROQ 94
QY 107 -----RLRGASSAABP--DGDKDAPEPLDKVITLSPGSDATAP--AMPPEGDEP-----GT 154
DB 95 GALDRKAAALAAAGAGAGAGAGGDRPP-----AAGPRALGPAAEPLLAANGT 139
QY 155 TTPGHSVPVPA 165
DB 140 VPSWPTAPVPS 150

RESULT 11
US-08-036-555B-170
Sequence 170, Application US/08036555B
Patent No. 5530109
GENERAL INFORMATION:
APPLICANT: Goodheart, Andrew; Stroobant, Paul;
APPLICANT: Minghetti, Luisa; Waterfield, Michael; Marchioni, Mark;
APPLICANT: Chen, Maio Su; Hiles, Ian
TITLE OF INVENTION: Glial Mitogenic Factors, Their
NUMBER OF SEQUENCES: 184
CORRESPONDENCE ADDRESS:
ADDRESSEE: Felte & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/036,555B
FILING DATE: 24-MAR-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/965,173
FILING DATE: 23-OCT-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/940,389
FILING DATE: 03-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/907,138
FILING DATE: 30-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/863,703
FILING DATE: 03-APRIL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.K. 91 07566.3
FILING DATE: 10-APRIL-1991
ATTORNEY/AGENT INFORMATION:
NAME: Tsai, Christine H.
REGISTRATION NUMBER: 34,266
REFERENCE/DOCKET NUMBER: LUD 5250.4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 688-9200
TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 170:
SEQUENCE CHARACTERISTICS:
LENGTH: 422
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-036-555B-170

Query Match 11.8%; Score 113.5; DB 1; Length 422;
Best Local Similarity 28.3%; Pred. No. 0.012; 51; Indels 71; Gaps 11;
Matches 54; Conservative 15; Mismatches 51;

QY 2 RRGPSLRGRDAPAPTPVPAECFDLLVHVCACGLRTPRPKPAGASSP----- 51
DB 4 RRAPRR-SGRPP-----TAQRGSAARSSPPLPLPLLL 38
QY 52 APTTALQPOESVGAAGEAALPL-PGLLFGAPALLG---LALVALVLVGLVSWRROR 106
DB 39 LGTALAP-----GAAAGNEAAPAGASVCSSPPSVSVQELAORAAVIEGKVHPORROQ 94
QY 107 -----RLRGASSAABP--DGDKDAPEPLDKVITLSPGSDATAP--AMPPEGDEP-----GT 154
DB 95 GALDRKAAALAAAGAGAGAGAGGDRPP-----AAGPRALGPAAEPLLAANGT 139
QY 155 TTPGHSVPVPA 165
DB 140 VPSWPTAPVPS 150

RESULT 12
US-08-469-569-170
Sequence 170, Application US/08469569
Patent No. 5606032
GENERAL INFORMATION:
APPLICANT: Goodheart, Andrew; Stroobant, Paul;
APPLICANT: Minghetti, Luisa; Waterfield, Michael; Marchioni, Mark;
APPLICANT: Chen, Maio Su; Hiles, Ian
TITLE OF INVENTION: Glial Mitogenic Factors, Their
NUMBER OF SEQUENCES: 184
CORRESPONDENCE ADDRESS:
ADDRESSEE: Felte & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,569
FILING DATE: 06-JUN-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/036,555
FILING DATE: 24-MAR-1993
APPLICATION NUMBER: 07/965,173
FILING DATE: 23-OCT-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/940,389
FILING DATE: 03-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/907,138
FILING DATE: 30-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/863,703
FILING DATE: 03-APRIL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.K. 91 07566.3
FILING DATE: 10-APRIL-1991
ATTORNEY/AGENT INFORMATION:
NAME: Tsai, Christine H.
REGISTRATION NUMBER: 34,266
REFERENCE/DOCKET NUMBER: LUD 5250.4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 688-9200
TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 170:
SEQUENCE CHARACTERISTICS:
LENGTH: 422
TYPE: amino acid

```
/ Patent No. 6444642
/ GENERAL INFORMATION:
/ APPLICANT: SKLAR, Robert
/ APPLICANT: Marchionni, Mark
/ APPLICANT: Gwynne, David I.
/ TITLE OF INVENTION: METHODS FOR TREATING MUSCLE DISEASES AND
/ FILE OF INVENTION: DISORDERS
/ FILE REFERENCE: 04585/028003
/ CURRENT APPLICATION NUMBER: US/08/467,602C
/ EARLIER FILING DATE: 1995-06-06
/ EARLIER APPLICATION NUMBER: 08/209,204
/ EARLIER FILING DATE: 1994-03-08
/ EARLIER APPLICATION NUMBER: 08/059,022
/ EARLIER FILING DATE: 1993-05-06
/ NUMBER OF SEQ ID NOS: 420
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 384
/ LENGTH: 405
/ TYPE: PR1
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: VARIANT
/ LOCATION: (34)...(34)
/ OTHER INFORMATION: Xaa is any amino acid
US-08-467-602-384
```

```
Query Match 11.8%; Score 113.5; DB 4; Length 405;
Best Local Similarity 28.3%; Pred. No. 0.011;
Matches 54; Conservative 15; Mismatches 51; Indels 71; Gaps 11;
```

```
QY 2 RRGPSLRGRDAPATPCVPAECFPLVHVCAGLRTPRPKAGASP-----51
DB 38 RRAPR-SCRPG-----RAGPGSARSSPPLPLLL 72
QY 52 APTALQPOESVAGAGEALPL-GLLFGAPALLG---LALVIALVLGVLSWRQR 106
DB 73 LGTALAP---GAAAGNEAPAGASVCYSPSVQELAGRAAVVIEGVHPQRQQ 128
QY 107 ----RLRGASSAEP--DGDKDAPEPLDKVILSPGSDATP-AMPPGSDP-----GT 154
DB 129 GALDRKAAAGAGAGAGMGDREPP-----AAGPRALGPAAEPPLAANGT 173
QY 155 TPGHSPVPA 165
DB 174 VPSWPTAPVPS 184
```

RESULT 9

08-470-339-189
Sequence 189, Application US/08470339C
Patent No. 6232286

```
/ GENERAL INFORMATION:
/ APPLICANT: GOODEARL, ANDREW
/ APPLICANT: STROOBANT, PAUL
/ APPLICANT: MINGHETTI, LUISA
/ APPLICANT: WATERFIELD, MICHAEL
/ APPLICANT: MARCHIONNI, MARK
/ APPLICANT: CHEN, MARIO S.
/ APPLICANT: HILES, IAN
/ TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR
/ FILE OF INVENTION: PREPARATION AND USE
/ FILE REFERENCE: 04585/002008
/ CURRENT APPLICATION NUMBER: US/08/470,339C
/ CURRENT FILING DATE: 1995-06-06
/ EARLIER APPLICATION NUMBER: 08/036,555
/ EARLIER FILING DATE: 1993-03-24
/ EARLIER APPLICATION NUMBER: 07/940,389
/ EARLIER FILING DATE: 1992-09-03
/ EARLIER APPLICATION NUMBER: 07/907,138
/ EARLIER FILING DATE: 1992-06-30
/ EARLIER APPLICATION NUMBER: 07/863,703
/ EARLIER FILING DATE: 1992-04-03
/ EARLIER APPLICATION NUMBER: 91 07566.3 GB
```

```
/ EARLIER FILING DATE: 1999-04-10
/ NUMBER OF SEQ ID NOS: 226
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 189
/ LENGTH: 411
/ TYPE: PR1
/ ORGANISM: Homo sapiens
US-08-470-339-189
```

```
Query Match 11.8%; Score 113.5; DB 4; Length 411;
Best Local Similarity 28.3%; Pred. No. 0.012;
Matches 54; Conservative 15; Mismatches 51; Indels 71; Gaps 11;
```

```
QY 2 RRGPSLRGRDAPATPCVPAECFPLVHVCAGLRTPRPKAGASP-----51
DB 4 RRAPR-SCRPG-----RAGPGSARSSPPLPLLL 38
QY 52 APTALQPOESVAGAGEALPL-GLLFGAPALLG---LALVIALVLGVLSWRQR 106
DB 39 LGTALAP---GAAAGNEAPAGASVCYSPSVQELAGRAAVVIEGVHPQRQQ 94
QY 107 ----RLRGASSAEP--DGDKDAPEPLDKVILSPGSDATP-AMPPGSDP-----GT 154
DB 95 GALDRKAAAGAGAGAGMGDREPP-----AAGPRALGPAAEPPLAANGT 139
QY 155 TPGHSPVPA 165
DB 140 VPSWPTAPVPS 150
```

RESULT 10

US-08-470-339-188
Sequence 188, Application US/08470339C
Patent No. 6232286

```
/ GENERAL INFORMATION:
/ APPLICANT: GOODEARL, ANDREW
/ APPLICANT: STROOBANT, PAUL
/ APPLICANT: MINGHETTI, LUISA
/ APPLICANT: WATERFIELD, MICHAEL
/ APPLICANT: MARCHIONNI, MARK
/ APPLICANT: CHEN, MARIO S.
/ APPLICANT: HILES, IAN
/ TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR
/ FILE OF INVENTION: PREPARATION AND USE
/ FILE REFERENCE: 04585/002008
/ CURRENT APPLICATION NUMBER: US/08/470,339C
/ CURRENT FILING DATE: 1995-06-06
/ EARLIER APPLICATION NUMBER: 08/036,555
/ EARLIER FILING DATE: 1993-03-24
/ EARLIER APPLICATION NUMBER: 07/940,389
/ EARLIER FILING DATE: 1992-09-03
/ EARLIER APPLICATION NUMBER: 07/907,138
/ EARLIER FILING DATE: 1992-06-30
/ EARLIER APPLICATION NUMBER: 07/863,703
/ EARLIER FILING DATE: 1992-04-03
/ EARLIER APPLICATION NUMBER: 91 07566.3 GB
/ EARLIER FILING DATE: 1999-04-10
/ NUMBER OF SEQ ID NOS: 226
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 188
/ LENGTH: 414
/ TYPE: PR1
/ ORGANISM: Homo sapiens
US-08-470-339-188
```

```
Query Match 11.8%; Score 113.5; DB 4; Length 414;
Best Local Similarity 28.3%; Pred. No. 0.012;
Matches 54; Conservative 15; Mismatches 51; Indels 71; Gaps 11;
```

```
QY 2 RRGPSLRGRDAPATPCVPAECFPLVHVCAGLRTPRPKAGASP-----51
DB 4 RRAPR-SCRPG-----RAGPGSARSSPPLPLLL 38
```

```

US-08-467-602-404
: Sequence 404, Application US/08467602C
: Patent No. 6444642
: GENERAL INFORMATION:
: APPLICANT: Sklar, Robert
: APPLICANT: Marchionni, Mark
: TITLE OF INVENTION: METHODS FOR TREATING MUSCLE DISEASES AND
: TITLE OF INVENTION: METHODS FOR TREATING MUSCLE DISEASES AND
: FILE REFERENCE: 04585/028003
: CURRENT APPLICATION NUMBER: US/08/467,602C
: CURRENT FILING DATE: 1995-06-06
: EARLIER APPLICATION NUMBER: 08/209,204
: EARLIER FILING DATE: 1994-03-08
: EARLIER APPLICATION NUMBER: 08/059,022
: EARLIER FILING DATE: 1993-05-06
: NUMBER OF SEQ ID NOS: 420
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 404
: LENGTH: 248
: TYPE: prt
: ORGANISM: Homo sapiens
US-08-467-602-404

```

```

Query Match 11.8% ; Score 113.5 ; DB 4 ; length 248 ;
Beat Local Similarity 28.3% ; Pred. No. 0.0065 ;
Matches 54 ; Conservative 15 ; Mismatches 51 ; Indels 71 ; Gaps 11.

QY 2 RRGRPSLRGRDAPAPTPCVPACBFDLLVRHCVCGLTFRPKPAGASSP----- 51
Db 4 RRAPRR--SGRGCP-----PAQRFGSAARSSPPLPLPLLL 38

QY 52 APTATLOQESVGAGAGEALPL--GLLFGAPALIG-----LATVLTATLVNGVSRRROR 106
Db 39 LGTAAALAP-----GAAAGNEAAPAGASVCYSSPSPSGVQELQRAAVVIEGKTHPQRKQQ 94

QY 107 ---RLRGASSAAEAP--DGDKDAPEPLDKVITLISGISDAAAP--AMPPEGDP-----GT 154
Db 95 GALTDRKAAALAAAGAGAWGDREPP-----AAGPALGPAEPEPLLAANGT 139

QY 155 TRPGHSVPVPA 165
Db 140 VPSWPTAVPS 150

```

RESULT 6
HS-08-470-335-188
Sequence 188, Application US/08470335F
Patent No. 6147190

```

1  GENERAL INFORMATION:
2  APPLICANT: GOODEARL, ANDREW
3  APPLICANT: STROOBANT, PAUL
4  APPLICANT: MINGHETTI, LUISA
5  APPLICANT: WATERFIELD, MICHAEL
6  APPLICANT: MARCHIONNI, MARK
7  APPLICANT: CHEN, MARIO S.
8  APPLICANT: TIEN, TAN
9  TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR
10 TITLE OF INVENTION: PREPARATION AND USE
11 FILE REFERENCE: 04585/00200B
12 CURRENT APPLICATION NUMBER: US/08/470,335P
13 CURRENT FILING DATE: 1995-06-06
14 EARLIER APPLICATION NUMBER: 08/036,555
15 EARLIER FILING DATE: 1993-03-24
16 NUMBER OF SEQ ID NOS: 252
17 SOFTWARE: FASTSEQ for Windows Version 4.0
18 SEQ ID NO. 188
19 LENGTH: 349
20 TYPE: PR1
21 ORGANISM: Homo sapiens
22 IS-08-470-335-188

```

Query Match	11.8%	Score 113.5;	DB 4;	Length 349;
-------------	-------	--------------	-------	-------------

Best Local Similarity	28.3%	Pred. No. 0.0096;	
Matches	54;	Conservative 15;	Mismatches 51; Indels 71; Gaps 11.

QY	2	RRGRSLRGRAPAPTPCVPAECFDLVRHVCAGGLARTPRPKAGASSP-----	51
Db	4	RRAPRR-SGRGPP-----	38
QY	52	APRTALPQESVSGAGAGALPL-PGLLEGAPALLG-----LALVIALVVLGVSWRROR	106
Db	39	LGTALAP-----GAAAGVEAAPAGASVCSYSSPPSGSVQELAORAAVIVBEKVHFORQO	94
QY	107	-----RLRQSSAAEAP--DGDQDADEPLDQVILISPGISDAPAP--AMPPEGDP-----GT	154
Db	95	GALDRKAAAAGAGAGAWGMDREPP-----AAGPRALGPPAPEPLLAANGT	139
QY	155	TRPGHSVPVPA	165
Db	140	VFSWPTAVPS	150

```

RESULT 7
US-08-467-602-382
; Sequence 382, Application US/08467602C
; Patent No. 6444642
; GENERAL INFORMATION:
; APPLICANT: Sklar, Robert
; APPLICANT: Marchionni, Mark
; APPLICANT: Gayme, David I.
; TITLE OF INVENTION: METHODS FOR TREATING MUSCLE DISEASES AND
; TITLE OF INVENTION: DISORDERS
; FILE REFERENCE: 04585/028003
; CURRENT APPLICATION NUMBER: US/08/467,602C
; CURRENT FILING DATE: 1995-06-06
; EARLIER APPLICATION NUMBER: 08/209,204
; EARLIER FILING DATE: 1994-03-08
; EARLIER APPLICATION NUMBER: 08/059,022
; EARLIER FILING DATE: 1993-05-06
; NUMBER OF SEQ. ID NOS. 420
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 382
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (34)...(34)
; OTHER INFORMATION: Xaa is any amino acid
US-08-467-602-382

```

	Query Match	11.8%;	Score 113.5;	DB 4;	Length 389;
	Best Local Similarity	28.3%;	Pred. No. 0.011;		
	Matches	54;	Conservative	15;	Mismatches 51; Indels 71; Gaps 11.
QY	2 RRGSRSLRGRDAPPTCPAECFDLLVRHCAGLRLTPRPKPAGASSP-----	51			
Db	38 RRARR--SGRRGP-----RAQPGSAARSSPLPLPLDLL	72			
QY	52 AFRRLPOLPSVGAGAEALPL-FLGLFGPALG---IALVALVLVLTVMEMRROR	106			
Db	73 LGRTALLP---GAAGNEBAPAGASVCYSPPSVGVQELAQRAAAVTBEKVHPDRKQQ	128			
QY	107 -----RLNGASAENP--DGDKADEPRLDKVILISGISDATAP-AWPEPGEQP-----GT	154			
Db	129 GALDRKAAMAAAGEAGAWGGDREP-----AAGPRALGPAPAEPLLAANGT	173			
QY	155 TRPGHSIVPVPA	165			
Db	174 VPSWPTAVPS	184			

RESULT 8
US-08-467-602-384
; Sequence 384, Application US/08467602C

```
APPLICANT: GOODEARL, ANDREW
APPLICANT: STROOBANT, PAUL
APPLICANT: MINGHETTI, LUISA
APPLICANT: WATERFIELD, MICHAEL
APPLICANT: MARCHIONNI, MARK
APPLICANT: CHEN, MARIO S.
APPLICANT: HILES, IAN
TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR
FILE REFERENCE: 04585/002008
CURRENT APPLICATION NUMBER: US/08/470,335F
CURRENT FILING DATE: 1995-06-06
EARLIER APPLICATION NUMBER: 08/036,555
EARLIER FILING DATE: 1993-03-24
NUMBER OF SEQ ID NOS: 252
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 210
LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens
08-470-335-210

Query Match
11.8%; Score 113.5; DB 4; Length 248;
Best Local Similarity 28.3%; Pred. No. 0.0065;
Matches 54; Conservative 15; Mismatches 51; Indels 71; Gaps 11;

QY 2 RRGPSLRGRDAPATPCVPAECFLLVHCVACGLRTPRPKPAGASSP----- 51
DB 4 RRAPRR-SGRPGP-----RAORPSAARSSPPLPLPLLL 38
QY 52 APTALQPOESVAGAGGALPL-PGLIFGAPALIG-----LATVLTALVGLVSWRROR 106
DB 39 LGTALAP-----GAAAGNEAAPAGASVCSSPPSVGSVELAORAAVIEGVHPQRQO 94
QY 107 ---RLRGASSAEP--DGDKAPEPLDKVITLSPGISDATAP-AMPPGEDP-----GT 154
DB 95 GALDKRAAAGAGAGAGAGGDRP-----AAGPRALGPPEEPLLAANGT 139
QY 155 TPGHVSVPVA 165
DB 140 VPSWPTAPVPS 150

RESULT 3
US-08-470-339-210
Sequence 210, Application US/08470339C
Patent No. 6232286
GENERAL INFORMATION:
APPLICANT: GOODEARL, ANDREW
APPLICANT: STROOBANT, PAUL
APPLICANT: MINGHETTI, LUISA
APPLICANT: WATERFIELD, MICHAEL
APPLICANT: MARCHIONNI, MARK
APPLICANT: CHEN, MARIO S.
APPLICANT: HILES, IAN
TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR
FILE REFERENCE: 04585/002008
CURRENT APPLICATION NUMBER: US/08/470,339C
CURRENT FILING DATE: 1995-06-06
EARLIER APPLICATION NUMBER: 08/036,555
EARLIER FILING DATE: 1993-03-24
EARLIER APPLICATION NUMBER: 07/940,389
EARLIER FILING DATE: 1992-09-03
EARLIER APPLICATION NUMBER: 07/907,138
EARLIER FILING DATE: 1992-06-30
EARLIER APPLICATION NUMBER: 07/863,703
EARLIER FILING DATE: 1992-04-03
EARLIER APPLICATION NUMBER: 91 07566.3 GB
EARLIER FILING DATE: 1999-04-10
NUMBER OF SEQ ID NOS: 226
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 210
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LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens
US-08-470-339-210

Query Match
11.8%; Score 113.5; DB 4; Length 248;
Best Local Similarity 28.3%; Pred. No. 0.0065;
Matches 54; Conservative 15; Mismatches 51; Indels 71; Gaps 11;

QY 2 RRGPSLRGRDAPATPCVPAECFLLVHCVACGLRTPRPKPAGASSP----- 51
DB 4 RRAPRR-SGRPGP-----RAORPSAARSSPPLPLPLLL 38
QY 52 APTALQPOESVAGAGGALPL-PGLIFGAPALIG-----LATVLTALVGLVSWRROR 106
DB 39 LGTALAP-----GAAAGNEAAPAGASVCSSPPSVGSVELAORAAVIEGVHPQRQO 94
QY 107 ---RLRGASSAEP--DGDKAPEPLDKVITLSPGISDATAP-AMPPGEDP-----GT 154
DB 95 GALDKRAAAGAGAGAGAGGDRP-----AAGPRALGPPEEPLLAANGT 139
QY 155 TPGHVSVPVA 165
DB 140 VPSWPTAPVPS 150

RESULT 4
US-08-467-602-207
Sequence 207, Application US/08467602C
Patent No. 6444642
GENERAL INFORMATION:
APPLICANT: Sklar, Robert
APPLICANT: Marchionni, Mark
APPLICANT: Gayne, David I.
TITLE OF INVENTION: METHODS FOR TREATING MUSCLE DISEASES AND
FILE REFERENCE: 04585/028003
CURRENT APPLICATION NUMBER: US/08/467,602C
CURRENT FILING DATE: 1995-06-06
EARLIER APPLICATION NUMBER: 08/209,204
EARLIER FILING DATE: 1994-03-08
EARLIER APPLICATION NUMBER: 08/059,022
EARLIER FILING DATE: 1993-05-06
NUMBER OF SEQ ID NOS: 420
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 207
LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens
US-08-467-602-207

Query Match
11.8%; Score 113.5; DB 4; Length 248;
Best Local Similarity 28.3%; Pred. No. 0.0065;
Matches 54; Conservative 15; Mismatches 51; Indels 71; Gaps 11;

QY 2 RRGPSLRGRDAPATPCVPAECFLLVHCVACGLRTPRPKPAGASSP----- 51
DB 4 RRAPRR-SGRPGP-----RAORPSAARSSPPLPLPLLL 38
QY 52 APTALQPOESVAGAGGALPL-PGLIFGAPALIG-----LATVLTALVGLVSWRROR 106
DB 39 LGTALAP-----GAAAGNEAAPAGASVCSSPPSVGSVELAORAAVIEGVHPQRQO 94
QY 107 ---RLRGASSAEP--DGDKAPEPLDKVITLSPGISDATAP-AMPPGEDP-----GT 154
DB 95 GALDKRAAAGAGAGAGAGGDRP-----AAGPRALGPPEEPLLAANGT 139
QY 155 TPGHVSVPVA 165
DB 140 VPSWPTAPVPS 150

RESULT 5
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 23, 2003, 15:12:32 ; Search time 26 Seconds
(without alignments)
208.224 Million cell updates/sec

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Perfect score: 965
Sequence: 1 MRGRPSLGRDPAAPFPCV.....ATELSTELVTTKTAGPEEQ 184

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues
al number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents AA:*
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3: /cgn2_6/prodata/1/1aa/6A-COMB.pep:*
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5: /cgn2_6/prodata/1/1aa/6C-TUS-COMB.pep:*
6: /cgn2_6/prodata/1/1aa/backfill1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	113.5	11.8	248	4	US-08-470-335-210
3	113.5	11.8	248	4	US-08-470-339-210
4	113.5	11.8	248	4	US-08-467-602-207
5	113.5	11.8	248	4	US-08-467-602-404
6	113.5	11.8	349	4	US-08-470-335-188
7	113.5	11.8	382	4	US-08-467-602-382
8	113.5	11.8	405	4	US-08-467-602-384
9	113.5	11.8	411	4	US-08-470-339-189
10	113.5	11.8	414	4	US-08-470-339-188
11	113.5	11.8	422	1	US-08-036-555B-170
12	113.5	11.8	422	1	US-08-469-569-170
13	113.5	11.8	422	1	US-08-428-926-3
14	113.5	11.8	422	1	US-08-249-322A-170
15	113.5	11.8	422	1	US-08-428-927-3
16	113.5	11.8	422	1	US-08-428-298-3
17	113.5	11.8	422	1	US-08-339-517-3
18	113.5	11.8	422	1	US-08-469-526A-170
19	113.5	11.8	422	2	US-08-734-591A-170
20	113.5	11.8	422	2	US-08-469-660-170
21	113.5	11.8	422	3	US-08-341-018-72
22	113.5	11.8	422	4	US-08-470-335-170
23	113.5	11.8	422	4	US-08-735-021-170
24	113.5	11.8	422	4	US-08-734-664A-170
25	113.5	11.8	422	4	US-08-470-339-170
26	113.5	11.8	422	4	US-08-467-602-170
27	113.5	11.8	422	4	US-08-467-602-324

28	113.5	11.8	422	5	PCT-US94-05083C-166	Sequence 166, App
29	113.5	11.8	422	5	PCT-US94-05083C-185	Sequence 185, App
30	113.5	11.8	422	5	PCT-US95-06846A-170	Sequence 170, App
31	113.5	11.8	425	4	US-08-470-335-226	Sequence 226, App
32	113.5	11.8	425	4	US-08-467-602-320	Sequence 320, App
33	113.5	11.8	445	4	US-08-467-602-328	Sequence 328, App
34	113.5	11.8	456	4	US-08-470-335-246	Sequence 246, App
35	113.5	11.8	456	4	US-08-467-602-366	Sequence 366, App
36	113.5	11.8	456	4	US-08-467-602-366	Sequence 366, App
37	113.5	11.8	459	4	US-08-470-335-239	Sequence 239, App
38	113.5	11.8	459	4	US-08-467-602-299	Sequence 299, App
39	113.5	11.8	459	4	US-08-467-602-362	Sequence 362, App
40	113.5	11.8	479	4	US-08-467-602-307	Sequence 307, App
41	113.5	11.8	479	4	US-08-467-602-370	Sequence 370, App
42	113.5	11.8	490	4	US-08-467-602-345	Sequence 345, App
43	113.5	11.8	493	4	US-08-467-602-341	Sequence 341, App
44	113.5	11.8	513	4	US-08-467-602-349	Sequence 349, App
45	113.5	11.8	601	4	US-08-470-335-233	Sequence 233, App

ALIGNMENTS

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RESULT 1
US-08-341-018-52
; Sequence 52, Application US/08341018A
; Patent No. 6087323
; GENERAL INFORMATION:
; APPLICANT: Gymer, David I.
; APPLICANT: Mahantappa, Nagesh K.
; APPLICANT: Marchionni, Mark A.
; APPLICANT: Birmingham-McDonogh, Olivia
; APPLICANT: Goldin, Stanley M.
; APPLICANT: McBurney, Robert N.
; TITLE OF INVENTION: USE OF NEUREGLINS AS MODULATORS OF
; FILE OF INVENTION: CELLULAR COMMUNICATION
; FILE REFERENCE: 04585/041001
; CURRENT APPLICATION NUMBER: US/08/341, 018A
; CURRENT FILING DATE: 1994-11-17
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-341-018-52

Query Match      11.8%  Score 113.5; DB 3; Length 248;
Best Local Similarity 28.3%; Pred. No. 0.0065;
Matches 54; Conservative 15; Mismatches 51; Indels 71; Gaps 11;

QY      2  RGRPSLGRDPAAPFPCVPAECFDLVHCVAGGLRTPRKAGASSP-----51
      4  RRAPR-SGRPP-----RAQPSGNAKSSPLPLPLLL 38
QY      52  APTALQPSVSGAGGAPLPL-GLLFGAPALG-----DALVLAIVGLVSWRRQR 106
      39  LGTALAL-----GAAGNEAPAGASVCSPEVSGVQELAQAATAVIEKVIHQRRQQ 94
QY      107  ---RLRGASSALEAP--DGDYDAPBPLDKVILISPGISDATAP-AMPPGGDP-----GT 154
      95  GALDRKAAALAAAGAGAMGDRREP-----AAGPPALGPPAREPILAAANGT 139
QY      155  TPGHSVPVPA 165
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Db

RESULT 2
US-08-470-335-210
; Sequence 210, Application US/08470335F
; Patent No. 6147190
; GENERAL INFORMATION:
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